ABSTRACT

A method of modifying low frequency components of a digital audio signal having left and right channel signals, including the steps of: a) filtering the left and right channels signals using respective left and right high-pass filters to form left and right high-pass filtered signals; b) filtering the left and right channel signals using respective left and right band-pass filters to form left and right low frequency signals; c) modifying the amplitude of the left and right low frequency signals to give modified left and right low frequency signals whereby signals with amplitude a where $0 < a < a1$ are amplified by a first constant value C1, signals with amplitude $a1 \leq a < a2$ are amplified proportional to $1/a$, signals with amplitude $a = 2a$ are unchanged, signals with amplitude $a2 < a < a3$ are attenuated proportional to $1/a$, and signals with amplitude $a = a3$ are attenuated by a second constant value C2; and d) combining the modified band-pass filtered left and right signals with the respective left and right high-pass filtered signals to form respective modified left and right channel audio signals.